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APPLICANT FACSIMILE OF FORM PTO-1449 REV 7-80

U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE

LIST OF PUBLICATIONS CITED BY APPLICANT
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ATTY DOCKET NO	SERIAL NO
CPI-012CP4DV	09/258600
APPLICANT	
Fowlkes, Dana M. et al.	
FILING DATE	GROUP
February 26, 1999	1636

U.S. PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
DL	A1	4,418,149	11/83	Ptashne *et al.*	435	253	
DL	A2	4,833,080	05/89	Brent *et al.*	435	172.3	
DL	A3	4,948,874	08/90	Kronvall *et al.*	530	350	
DL	A4	5,284,746	02/94	Sledziewski *et al.*	435	6	
DL	A5	5,401,629	03/95	Harpold *et al.*	435	6	
DL	A6	5,436,128	07/95	Harpold *et al.*	435	6	
	~~A7~~	~~5,482,835~~	~~01/96~~	~~King *et al.*~~	~~435~~	~~6~~	
DL	A8	5,573,944	11/96	Kirschner *et al.*	435	252.3	
DL	A9	5,691,188	11/97	Pausch *et al.*	435	254.2	
DL	A10	5,739,029	04/98	King *et al.*	435	254.21	
DL	A11	5,789,184	08/98	Fowlkes *et al*	435	7.31	
	~~A12~~	~~6,100,042~~	~~08/00~~	~~Fowlkes *et al.*~~	~~435~~	~~7.1~~	

FOREIGN PATENT DOCUMENTS

		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION YES	TRANSLATION NO
DL	A13	WO 92/08740 A2	05/92	~~WO~~ PCT				
DL	A14	WO 93/10230 A1	05/83	~~WO~~ PCT				
DL	A15	EP 568 925 A2,A3	11/93	~~EP~~ EPO				

Examiner	Date Considered
David Lambertson	1/15/03

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OTHERS (including Author, Title, Date, Pertinent Pages, Etc.)

DJ	B1		Akada, R. *et al.* "Genetic Relationships Between the G Protein βγ Complex, Ste5p, Ste20p and Cdc42p. Investigation of Effector Roles in the Yeast Pheromone Response Pathway." *Genetics* 143:103-117 (1996).
DJ	B2		Alison, Malcolm R. *et al.* "Growth factors and growth factor receptors," *Brit. J. of Hosp. Med.* 49(11):774-88 (1993).
DJ	B3	•	Altieri, Dario C. "Proteases and protease receptors in modulation of leukocyte effector functions," *J. of Leukocyte Biol.* 58:120-27 (1995).
DJ	B4		Artemyev, Nikolai O. *et al.* "Sites of Interaction between Rod G-Protein α-Subunit and cGMP-phosphodiesterase γ-Subunit," *J. Biol. Chem.* 267(35):25067-72 (1992).
DJ	B5	•	Belka, C. *et al.* "The role of tyrosine kinases and their substrates in signal transmission of hematopoietic growth factors: a short review," *Leukemia* 9:754-61 (1995).
DJ	B6		Bender, Alan and Sprague, George F. Jr. "Pheromones and Pheromone Receptors Are the Primary Determinants of Mating Specificity in the Yeast *Saccharomyces cerevisiae*," *Genetics* 121:463-76 (1989)
DJ	B7		Birnbaumer, Lutz "Transduction of receptor signal into modulation of effector activity by G proteins: the first 20 years or so . . . " *FASEB Journal* 4:3178-88 (1990).
DJ	B8	•	Blinder, Dmitry *et al.* "Constitutive Mutants in the Yeast Pheromone Response: Ordered function of the Gene Products," *Cell* 56:479-486 (1989).
DJ	B9		Bray, P. *et al.*, "Human cDNA clones for four species of $G\alpha_s$ signal transduction protein," *PNAS USA*, 83(23):8893-7 (1986).
DJ	B10		Bray, P. *et al.*, "Human cDNA clones for an α subunit of G, signal-transduction protein," *PNAS USA*, 84(15):5115-19 (1987).
DJ	B11		Brill, Julie A. *et al.* "A Role for Autophosphorylation Revealed by Activated Alleles of *FUS3*, the Yeast MAP Kinase Homolog." *Molecular Biology of the Cell* 5:297-312 (1994).
DJ	B12		Brugarolas, James *et al.* "Radiation-induced cell cycle arrest compromised by p21 deficiency," *Nature* 377:522-57 (1995).
DJ	B13		Burack, W. Richard *et al.* "The Activating Dual Phosphorylation of MAPK by MEK is Nonprocessive," *Biochemistry* 36(20):5929-5933 (1997).
DJ	B14		Cavallini, Bruno *et al.* "A yeast activity can substitute for the HeLa Cell TATA box factor," *Nature* 334:77-80 (1988).
DJ	B15		Chambers, D. A. *et al.* "Neuroimmune Modulation: Signal Transduction and Catecholamines," *Neurochem. Int.* 22(2):95-110 (1993).
DJ	B16		Chan, Russell K. and Otte, Carol A. "Isolation and Genetic Analysis of *Saccharomyces cerevisiae* Mutants Supersensitive to G1 Arrest by a Factor and α Factor Pheromones," *Molecular and Cellular Biol.* 2(1):11-20 (1982).
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DJ	B18		Clark, Karen L. *et al.* "Interactions among the Subunits of the G protein Involved in *Saccharomyces cerevisiae* Mating," *Molecular and Cellular Biol.* 13(1):1-8 (1993).
DJ	B19		Cole, Gary M. *et al.* "Stoichiometry of G Protein Subunits Affects the *Saccharomyces cerevisiae* Mating Pheromone Signal Transduction Pathway," *Molecular and Cellular Biology* 10(2):510-517 (1990).

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DJ	C2		Conklin, Bruce R. *et al.* "Substitution of three amino acids switches receptor specificity of $G_q\alpha$ to that of $G_i\alpha$," *Nature* 363:274-76 (1993).
DJ	C3		Dietzel, Christine *et al.* "Pheromonal regulation and sequence of the *Saccharomyces cerevisiae* SST2 gene: a model for desensitization to pheromone." *Mol. Cell. Biol.* 7(12):4169-4177, Dec. 1987
DJ	C4		Dietzel, Christine and Kurjan, Janet "The Yeast *SCG1* Gene. A Gα-like Protein Implicated in the a- and α-Factor Response Pathway," *Cell* 50:1001-10 (1987).
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DJ	C7		Dubois, Patrice M. *et al.* "Role of the transmembrane and cytoplasmic domains of surface IgM in endocytosis and signal transduction," *Eur. J. Immunol* 22:851-57 (1992).
DJ	C8		Enckson, Deborah "Intercepted Messages. New biotechnology drugs target intracellular communication," *Scientific American* 267(5) 122-23 (1992).
DJ	C9		Etienne, Gilles *et al.* "A Screening Method for Antifungal Substances Using *Saccharomyces cerevisiae* Strains Resistant to Polyene Macrolides," *J. of Antibiotics* 43(2):199-206 (1990).
DJ	C10		Fasullo, Michael T. and Davis, Ronald W "Direction of Chromosome Rearrangements in *Saccharomyces cerevisiae* by Use of *his3* Recombinational Substrates," *Molecular and Cellular Biol* 8(10):4370-80 (1988)
DJ	C11		Ferrell, James E. Jr. "Tripping the switch fantastic: how a protein kinase cascade can convert graded inputs into switch-like outputs," *Trends in Biochem. Sci.* 21(12):460-6 (1996)
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DJ	C13		Franke, Arthur E. *et al.* "Human C5a Anaphylatoxin: Gene Synthesis, Expression, and Recovery of Biologically Active Material from *Eschenchia coli*," *Methods in Enzymology* 162:653-68 (1988).
DJ	C14		Funaro, Ada *et al.* "Human CD38 is associated to distinct molecules which mediate transmembrane signaling in different lineages," *Eur. J. Immunol.* 23:2407-11 (1993).
DJ	C15		Gallego, Carme, *et al.* "Myristoylation of the $G_{\alpha 2}$ polypeptide, a G protein α subunit, is required for its signaling and transformation functions," *Proc. Natl. Acad. Sci. USA* 89:9695-99 (1992).
DJ	C16		Garritsen, Anja *et al.* "The N-Terminal coiled-coil domain of β is essential for γ association: A Model for G-Protein βγ subunit interaction," *Proc. Natl. Acad. Sci. USA* 90:7706-10 (1993).
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DJ	C18		Gordon, J. "B-cell signaling *via* the C-type lectins CD23 and CD72," *Immunology Today* 15(9):411-17 (1994).

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DJ	D2		Gros, Philippe *et al.* "Mammalian Multidrug Resistence Gene: Complete cDNA Sequence Indicates Strong Homology to Bacterial Transport Proteins," *Cell* 47:371-80 (1986).
DJ	D3		Hagen, David C. *et al.* "Evidence the yeast *STE3* gene encodes a receptor for the peptide pheromone a factor Gene sequence and implications for the structure of the presumed receptor," *Proc. Natl. Acad. Sci. USA* 83:1418-22 (1986).
DJ	D4		Hall, Marcia *et al* "Evidence for different modes of action of cyclin-dependent kinase inhibitors: p15 and p16 bind to kinases, p21 and p27 bind to cyclins," *Oncogene* 11 1581-88 (1995).
DJ	D5		Harbury, Pehr B. *et al.* "A Switch Between Two-, Three- and Four-Stranded Coiled Coils in GCN4 Leucine Zipper Mutants," *Science* 262 1401-07 (1993).
DJ	D6		Hartwell, Leland H. "Mutants of *Saccharomyces cerevisiae* Unresponsive to Cell Division Control by Polypeptide Mating Hormone," *J Cell Biol.* 85:811-22 (1980).
DJ	D7		Hasson, M.S. *et al* "Mutational Activation of the *STE5* Gene Product Bypasses the Requirement for G Protein β and γ Subunits in the Yeast Pheromone Response Pathway," *Molecular and Cellular Biology* 14(2):1054-1065 (1994)
DJ	D8		He, Bin *et al.* "*RAM2*, an essential gene of yeast, and *RAM1* encode the two polyeptide components of the farnesyltransferase that prenylates a-actor and Ras proteins," *Proc. Natl. Acad. Sci. USA* 88:11373-77 (1991)
DJ	D9		Hiltunen, J. Kalervo *et al.* "Peroxisomal Multifunctional β-Oxidation Protein of *Saccharomyces cerevisiae*," *J. of Biol. Chem.* 267(10):6646-6653 (1992).
DJ	D10		Hrycyna, Christine A *et al.* "The *Saccharomyces cerevisiae STE14* gene encodes a methyltransferase that mediates C-terminal methylation of a-factor and RAS Proteins," *The EMBO J.* 10(7) 1699-1709 (1991).
DJ	D11		Huang, Chi-Ying F. *et al.* "Ultrasensitivity in the mitogen-activated protein kinase cascade," *Proc. Natl. Acad. Sci. USA* 93:10078-10083 (1996).
DJ	D12		Imamoto, Akira *et al.* "Genetics of signal transduction: tales from the mouse," *Curr. Opin. Gen. & Dev.* 4:40-46 (1994).
DJ	D13	•	Inouye, Carla *et al.* "Ste5 RING-H2 Domain: Role in Ste4-Promoted Oligomerization for Yeast Pheromone Signaling," *Science* 278:103-106 (1997).
DJ	D14		Jabbar, M Abqul *et al.* "Influenza Viral (A/WSN/33) hemagglutinin is expressed and glycosylated in the yeast *Saccharomyces cerevisiae*," *Proc Natl. Acad. Sci. USA* 82:2019-23 (1985).
DJ	D15		Jakobs, K. H. *et al.* "Dual regulation of adenylate cyclase. A signal transduction mechanism of membrane receptors," *Basic Res. Cardiol.* 81.1-9 (1986).
DJ	D16		Journot, Laurent *et al.* "Amino Acids 367-376 of the G_s α subunit induce membrane association when fused to soluble amino-terminal deleted G_{i1} α subunit," *Proc. Natl. Acad. Sci. USA* 88.10054-58 (1991).
DJ	D17		Julius, David *et al.* "Glycosylation and Processing of Prepro-α-Factor through the Yeast Secretory Pathway," *Cell* 36:309-18 (1984).
DJ	D18		Julius, David *et al.* "Isolation of the Putative Structural Gene for the Lysine-Arginine-Cleaving Endopeptidase Required for Processing of Yeast Prepro-α-factor," *Cell* 37:1075-89 (1984).
DJ	D19		Julius, David *et al.* "Yeast α Factor is Processed from a Larger Precursor Polypeptide: The Essential Role of a Membrane-Bound Dipeptidyl Aminopeptidase," *Cell* 32 839-52 (1983).

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DJ	E1		Kaiser, Chris A. *et al.* "Many Random Sequences Functionally Replace the Secretion Signal Sequence of Yeast Invertase," *Science* 235:312-17 (1987)
DJ	E2		Kingsman, S.M. *et al.* "The production of mammalian protein in *Saccharomyces cerevisiae*," *Tibtech* 5:53-57 (1987).
DJ	E3		Kosugi, Shinji *et al.* "Characterization of heterogeneous mutations causing constitutive activation of the luteinizing hormone receptor in familial male precocious puberty," *Human Molecular Genetics* 4(2):183-88 (1995).
DJ	E4		Kramer, R. A. *et al.* "HTLV-III *gag* Protein Is Processed in Yeast Cells by the Virus pol-Protease," *Science* 231:1580-85 (1986).
DJ	E5		Kuchler, Karl and Thorner, Jeremy "Functional expression of human *mdr1* in the yeast *Saccharomyces cerevisiae*," *Proc. Natl. Acad. Sci. USA* 89:2302-06 (1992).
DJ	E6		Kuchler, Karl *et al.* "*Saccharomyces cerevisiae STE6* gene product: a novel pathway for protein export in eukaryotic cells," *The EMBO J.* 8(13):3973-84 (1989).
DJ	E7		Kurjan, Janet "α-Factor Structural Gene Mutations in *Saccharomyces cerevisiae*: Effects on α-Factor Production and Mating," *Molecular and Cellular Biol.* 5(4):787-96 (1985).
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DJ	E9		Lambright, David G. *et al.* "Structural determinants for activation of the α-subunit of a heterotrimeric G protein," *Nature* 369:621-28 (1994).
DJ	E10		Leberer, Ekkehard *et al.* "Dominant-negative mutants of a yeast G-protein β subunit identify two functional regions involved in pheromone signalling," *The EMBO J.* 11(13):4805-13 (1992).
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DJ	E14		Linder, Maurine E. and Gilman, Alfred G. "G Proteins," *Scientific American* 267(1):56-61,64-65 (1992).
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DJ	E16		Lolait, S. *et al.*, "Extrapituitary expression of the rat V1b vasopressin receptor gene," *PNAS USA* 92:6783-6787 (1995).
DJ	E17		Lupas, Andrei N. *et al.* "Do G protein subunits associate via a three-stranded coiled coil?" *FEBS* 314(2):105-08 (1992)
DJ	E18		Mackay, Vivian and Manney, Thomas R. "Mutations Affecting Sexual Conjugation and Related Processes in *Saccharomyces cerevisiae*. II. Genetic Analysis of Nonmating Mutants," *Genetics* 76:273-88 (1974).

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DJ	F1		Marengere, Luc E.M and Pawson, Tony "Structure and function of SH2 domains," *J. Cell Science Suppl* 18.97-104 (1994).
DJ	F2		Markby, David W. *et al.* "Separate GTP Binding and GTPase Activating Domains of a Gα Subunit," *Science* 262:1895-1901 (1993).
DJ	F3		Mattera, R. *et al* "Identification by molecular cloning of two forms of the α-subunit of the human liver stimulatory (G_s) regulatory component of adenylyl cyclase," *FEBS* 206(1):36-41 (1986).
DJ	F4		Michaelis, Susan and Herskowitz, Ira "The a-Factor Pheromone of *Saccharomyces cerevisiae* is Essential for Mating," *Molecular and Cellular Biol.* 8(3):1309-18 (1988).
DJ	F5		Milano, C.A. *et al.* "Enhanced Myocardial Function in Transgenic Mice Overexpressing the β_2 -Adrenergic Receptor," *Science* 264:582-86 (1994).
DJ	F6		Milburn, Michael V. *et al.* "Molecular Switch for Signal Transduction: Structural Differences Between Active and Inactive Forms of Protooncogenic *ras* Proteins," *Science* 247:939-45 (1990).
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DJ	F9		Nakayama, N. *et al* "Common signal transduction system shared by *STE2* and *STE3* in haploid cells of *Saccharomyces cerevisiae*, autocrine cell-cycle arrest results from forced expression of *STE2*," *The EMBO J* 6(1):249-54 (1987).
DJ	F10		Neer, Eva J. *et al.* "The Amino Terminus of a G Protein α Subunits Is Required for Interaction with βγ," *J Biol. Chem* 263(18):8996-9000 (1988).
DJ	F11		Ngo, J.T. *et al.* "Computational Complexity, Protein Structure Prediction, and the Levinthal Paradox" in The Protein Folding Problem and Tertiary Structure Prediction Merz K.M. *et al.*, eds. Birkhauser, Boston, pp. 433-506 (1994).
DJ	F12		Noel, Joseph P. *et al.* "The 2.2 Å crystal structure of transducin-α complexed with GTP-γ-S," *Nature* 366:654-63 (1993).
DJ	F13		Noelle, Randolph J. *et al.* "CD40 and its ligand, an essential ligand-receptor pair for thymus-dependent B-cell activation," *Immunol. Today* 13(11):431-33 (1992)
DJ	F14		Nomoto, Satoshi *et al.* "Regulation of the yeast pheromone response pathway by G protein subunits," *The EMBO J.* 9(3):691-696 (1990).
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DJ	F16		Oeda, Kenji *et al.* "Expression of Rat Liver Cytochrome P-450MC cDNA in *Saccharomyces cerevisiae*," DNA 4(3):203-10(1985).
DJ	F17		Ogden, Jill E. *et al.* "Efficient Expression of the *Saccharomyces cerevisiae* PGK Gene Depends on an Upstream Activation Sequence but Does Not Require TATA Sequences," *Molecular and Cellular Biol.* 6(12):4335-43 (1986).
DJ	F18		Pi, H. *et al.* (1997) "transcriptional activation upon pheromone stimulation mediated by a small domain of *Saccharomyces cerevisiae* Ste12p." *Mol. Cell. Biol.* 17(11):6410-6418 (1987).

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DJ	G2		Ramer, Sandra W. and Davis, Ronald W "A dominant truncation allele identifies a gene, *STE20*, that encodes a putative protein kinase necessary for mating in *Saccharomyces cerevisiae*," *Proc. Natl Acad. Sci. USA* 90:452-456 (1993).
DJ	G3		Ranade, Koustubh *et al.* "Mutations associated with familial melanoma impair $p16^{INK4}$ function," *Nature Genetics* 10:114-16 (1995)
DJ	G4		Ranck, Helen M. *et al.* "A Site on Rod G Protein α Subunit That Mediates Effector Activation," *Science* 256:1031-33 (1992).
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DJ	G12		Slepak, Vladlen Z *et al.* "Mutational Analysis of G Protein α Subunit Goα Expressed in *Escherichia coli*," *J. Biol Chem.* 268(2):1414-23 (1993).
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DJ	G17		Struhl, Kevin "Constitutive and Inducible *Saccharomyces cerevisiae* Promoters: Evidence for Two Distinct Molecular Mechanisms," *Molecular and Cellular Biol.* 6(11).3847-53 (1986).
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LIST OF PUBLICATIONS CITED BY APPLICANT (Use several sheets if necessary)	CPI-012CP4DV	09/258600
	APPLICANT: Fowlkes, Dana M. *et al.*	
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DJ	H1		Sullivan, Kathleen A. *et al.*, "Identification of receptor contact site involved in receptor-G protein coupling," *Nature* 330:758-60 (1987).
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U.S. PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
	11	~~09/286168~~		~~Fowlkes *et al.*~~			~~04/99~~
	12	~~10/263341~~		Fowlkes *et al.*			10/02

* application has been transferred to another firm and is no longer available

Examiner	Date Considered
David Lamberton	1/15/04

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